

| Ref # | Hits  | Search Query                                | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| L1    | 11    | "6134461" and ferrocene                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 09:57 |
| L2    | 4     | "6340428" and ferrocene                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:01 |
| L3    | 92    | "4711245" and ferrocene                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:01 |
| L4    | 4     | "4711245" and ferrocene near3<br>carboxyl\$ | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:05 |
| L5    | 81    | "5262035" and glucose near<br>dehydrogenase | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:06 |
| L6    | 42    | L5 and ferrocene                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:07 |
| L7    | 0     | L5 and ferrocene near carboxyl\$            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:08 |
| L8    | 73    | L and ferrocene near carboxyl\$             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:08 |
| L9    | 92    | 3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:08 |
| L10   | 0     | L3 and ferrocene near carboxylic            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:37 |
| L11   | 142   | "4711245"                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:57 |
| L12   | 53345 | electrode near4 (working or<br>counter)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 10:58 |

|     |      |                               |   |    |    |                  |
|-----|------|-------------------------------|---|----|----|------------------|
| L13 | 1    | L12 and oxidoreducase         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 10:59 |
| L14 | 233  | L12 and AC near3 potential    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 10:59 |
| L15 | 12   | L14 and glucose near3 oxidase | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 10:59 |
| L16 | 3    | L15 and ferrocene             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:00 |
| L17 | 1400 | L12 and glucose near3 oxidase | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:00 |
| L18 | 484  | L17 and ferrocen\$            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:01 |
| L19 | 306  | L18 and interfer\$            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:01 |
| L20 | 258  | L19 and redox                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:32 |
| L21 | 0    | L20 and impeddance            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:32 |
| L22 | 96   | L20 and impedance             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:39 |
| L23 | 1    | L22 and (ferrocenecarbox\$)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:41 |
| L24 | 93   | L22 and (\$ferrocene)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:53 |

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| L25 | 93 | electrode and (ferrocenecarboxy\$ or carboxyferrocene or ferrocene near3 monocarboxy\$) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:55 |
| L26 | 47 | L25 and (glucose near4 oxidase or glucose near4 dehydrogenase)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:55 |
| L27 | 40 | L26 and (working or counter near4 electrode)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/12/07 11:56 |

| Ref # | Hits   | Search Query                              | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| L1    | 418466 | AC or DC near4 potential                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:28 |
| L2    | 49874  | L1 and impedance                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:28 |
| L3    | 18894  | L2 and central or redox near4 potential   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:29 |
| L4    | 376    | L2 and (central or redox) near4 potential | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:29 |
| L5    | 52     | L4 and glucose near4 oxidase              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:30 |
| L6    | 28     | L5 and ferrocene                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:33 |
| L7    | 28     | L6 and electrode                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/12/07 14:33 |

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(FILE 'HOME' ENTERED AT 13:21:43 ON 07 DEC 2005)

FILE 'REGISTRY' ENTERED AT 13:22:29 ON 07 DEC 2005

L1 1 SEA ABB=ON PLU=ON 1271-42-7/RN  
L2 1 SEA ABB=ON PLU=ON 81669-60-5/RN  
L3 1 SEA ABB=ON PLU=ON 9001-37-0/RN

FILE 'BIOSIS, CA, CAPLUS, CANCERLIT, AGRICOLA, NIOSHTIC, DISSABS, SCISEARCH, CABA' ENTERED AT 13:25:59 ON 07 DEC 2005

FILE 'REGISTRY' ENTERED AT 13:26:10 ON 07 DEC 2005

SET SMARTSELECT ON  
L4 SEL PLU=ON L1 1- CHEM : 10 TERMS  
SET SMARTSELECT OFF

FILE 'BIOSIS, CA, CAPLUS, CANCERLIT, AGRICOLA, NIOSHTIC, DISSABS, SCISEARCH, CABA' ENTERED AT 13:26:11 ON 07 DEC 2005

L5 2128 SEA ABB=ON PLU=ON L4

FILE 'REGISTRY' ENTERED AT 13:26:53 ON 07 DEC 2005

SET SMARTSELECT ON  
L6 SEL PLU=ON L2 1- CHEM : 14 TERMS  
SET SMARTSELECT OFF

FILE 'BIOSIS, CA, CAPLUS, CANCERLIT, AGRICOLA, NIOSHTIC, DISSABS, SCISEARCH, CABA' ENTERED AT 13:26:54 ON 07 DEC 2005

L7 8079 SEA ABB=ON PLU=ON L6

FILE 'REGISTRY' ENTERED AT 13:27:58 ON 07 DEC 2005

SET SMARTSELECT ON  
L8 SEL PLU=ON L3 1- CHEM : 33 TERMS  
SET SMARTSELECT OFF

FILE 'BIOSIS, CA, CAPLUS, CANCERLIT, AGRICOLA, NIOSHTIC, DISSABS, SCISEARCH, CABA' ENTERED AT 13:27:59 ON 07 DEC 2005

L9 37954 SEA ABB=ON PLU=ON L8  
L10 14 SEA ABB=ON PLU=ON L5 AND L7 AND L9  
L11 6 DUP REM L10 (8 DUPLICATES REMOVED)  
D L11 IBIB ABS 1-6

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 DEC 2005 HIGHEST RN 869462-96-4

DICTIONARY FILE UPDATES: 6 DEC 2005 HIGHEST RN 869462-96-4

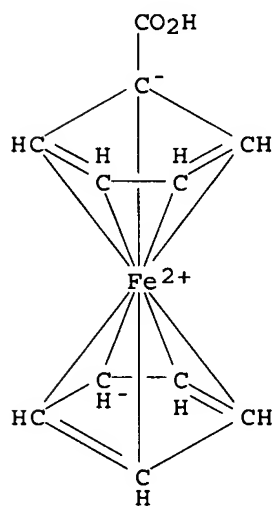
New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

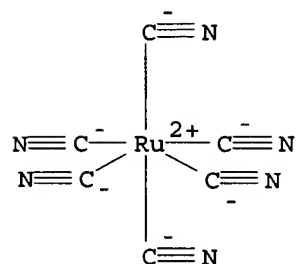
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\*

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 1271-42-7 REGISTRY  
 CN Ferrocene, carboxy- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ferrocenecarboxylic acid (8CI)  
 CN Iron, (carboxycyclopentadienyl)cyclopentadienyl- (6CI)  
 OTHER NAMES:  
 CN Carboxyferrocene  
 CN Carboxylferrocene  
 CN Cyclopentadienecarboxylic acid, cyclopentadienyliron deriv.  
 CN Ferrocenemonocarboxylic acid  
 CN Ferrocenoic acid  
 CN Ferrocenylcarboxylic acid  
 CN NSC 97552  
 DR 119390-45-3  
 MF C11 H10 Fe O2  
 CI CCS, COM  
 LC STN Files: ANABSTR, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS,  
 CASREACT, CHEMCATS, CHEMLIST, CSCHEM, GMELIN\*, HODOC\*, IFICDB, IFIPAT,  
 IFIUDB, MEDLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 CMBI (Combinatorial study); OCCU (Occurrence); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
 NORL (No role in record)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
 study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or  
 reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); FORM (Formation, nonpreparative); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);  
 NORL (No role in record)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
 study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP  
 (Properties); RACT (Reactant or reagent); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 21029-33-4 REGISTRY  
 CN Ruthenate(4-), hexakis(cyano-κC)-, (OC-6-11)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ruthenate(4-), hexacyano- (8CI)  
 CN Ruthenate(4-), hexakis(cyano-C)-, (OC-6-11)-  
 OTHER NAMES:  
 CN Hexacyanoruthenate ion(4-)  
 CN Hexacyanoruthenate(4-)  
 CN Hexacyanoruthenate(II)  
 CN Hexacyanoruthenium(4-)  
 MF C6 N6 Ru  
 CI CCS, COM  
 LC STN Files: CA, CAPLUS, GMELIN\*, MEDLINE, PIRA, TOXCENTER, USPAT2,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 DT.CA Caplus document type: Conference; Journal; Patent; Preprint; Report  
 RL.P Roles from patents: ANST (Analytical study); FORM (Formation,  
 nonpreparative); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); FORM (Formation, nonpreparative); PREP (Preparation); PROC  
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: PRP (Properties);  
 RACT (Reactant or reagent)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

150 REFERENCES IN FILE CA (1907 TO DATE)  
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 150 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 81669-60-5 REGISTRY  
 CN Dehydrogenase, glucose (pyrroloquinoline-quinone) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN  $\beta$ -D-Glucose dehydrogenase  
 CN D-Glucose dehydrogenase  
 CN E.C. 1.1.99.17  
 CN GlucDor  
 CN Glucose dehydrogenase  
 CN Glucose dehydrogenase (PQQ dependent)  
 CN Glucose dehydrogenase (pyrroloquinoline quinone)  
 CN PQQ glucose dehydrogenase  
 CN PQQ-dependent glucose dehydrogenase  
 CN Pyrroloquinoline quinone glucose dehydrogenase  
 CN Pyrroloquinoline quinone-dependent glucose dehydrogenase  
 CN Quinoprotein D-glucose dehydrogenase  
 CN Quinoprotein glucose dehydrogenase  
 MF Unspecified  
 CI MAN  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS,  
 CEN, CIN, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL  
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent  
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
 PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
 reagent); USES (Uses)  
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
 study); BIOL (Biological study); PREP (Preparation); PRP (Properties);  
 USES (Uses)  
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
 study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP  
 (Preparation); PROC (Process); PRP (Properties); USES (Uses)  
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
 study); BIOL (Biological study); OCCU (Occurrence); PROC (Process); PRP  
 (Properties); RACT (Reactant or reagent); USES (Uses)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

276 REFERENCES IN FILE CA (1907 TO DATE)  
 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 276 REFERENCES IN FILE CAPLUS (1907 TO DATE)



L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 9001-37-0 REGISTRY

CN Oxidase, glucose (9CI) (CA INDEX NAME)

OTHER NAMES:

CN  $\beta$ -D-Glucose oxidase

CN  $\beta$ -D-Glucose:quinone oxidoreductase

CN Bakezyme GO 1500

CN Corylophyline

CN D-Glucose oxidase

CN D-Glucose-1-oxidase

CN De-oxin

CN Deoxin-1

CN E.C. 1.1.3.4

CN Fermizyme GO 1500

CN Fermizyme GO-10000

CN Glucose 1-oxidase

CN Glucose aerodehydrogenase

CN **Glucose oxidase**

CN Gluzyme

CN Gluzyme 2500 BG

CN Gluzyme 500 MG

CN Gluzyme Mono 10,000BG

CN Grindamyl S 757

CN Hyderase

CN Hyderase 15

CN Hyderase HC

CN Microcid

CN Notatin

CN Novozym 37007

CN Novozym 771

CN Oxygo

CN Oxygo 1500

CN Penatin

CN Sigma G 7016

CN SynthacLEC-GO

DR 9051-05-2

MF Unspecified

CI COM, MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

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RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

9531 REFERENCES IN FILE CA (1907 TO DATE)

851 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

9549 REFERENCES IN FILE CAPLUS (1907 TO DATE)